

Date: Tue, 13 Sep 94 07:59:34 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #1016
To: Info-Hams

Info-Hams Digest Tue, 13 Sep 94 Volume 94 : Issue 1016

Today's Topics:

1.2GHz on an HT -- how far?
HF Beacon Frequencies?
Learning CW
New license elapsed time
Radio Shack mast
Rise Set Times 9/14-16
SAREX Elements 9/13 at 12:85 UTC
telnet to fcc?
Using 9913 outdoors (was Re: Coax Fittings)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
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Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 12 Sep 1994 18:42:39 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!usc!nic-
nac.CSU.net!charnel.ecst.csuchico.edu!olivea!korie1!male.EBay.Sun.COM!
engnews1.Eng.Sun.COM!engnews2.@@ihnp4.ucsd.edu
Subject: 1.2GHz on an HT -- how far?
To: info-hams@ucsd.edu

In article <gbrush.13.000969B2@indy.net> gbrush@indy.net (Greg Brush) writes:

>A few of us with experience only in HF/VHF were discussing operation in the
>1.2GHz band and specifically just how far (or not) one could transmit with the
>typical HT operating on 1 or 2 watts with a rubber duck style antenna.

Well, keep in mind it's not a "rubber duck" shortened antenna, since

a full size 1/4 wave is only 2 inches long (in fact my ICOM 12-GAT came with one about 5 inches long, which I guess is a 5/8 wave.)

>

>It's obviously going to be very line-of-site sensitive, but in practical
>terms, in a moderately flat and forested area, are we talking hundreds of
>yards or a couple miles?

Seems to work about as well as a 2 meter or 440 HT. I have no problem hitting high level repeaters 20 miles away. In forests through trees there might be some absorption problems, though I've never noticed any. It is prone to "dead spots" (multipath nulls, a/k/a picket fencing). Moving a few feet can make quite a difference. On very hot days, it can be hard to hit the repeaters -- convection currents in the air (the equivalent of the optical heat "wiggles" one sees on hot days.)

Rich

--

Rich McAllister (rfm@eng.sun.com)

Date: Mon, 12 Sep 1994 03:18:49 GMT
From: news.Hawaii.Edu!kahuna!jeffrey@ames.arpa
Subject: HF Beacon Frequencies?
To: info-hams@ucsd.edu

In article <herbrCvzLCL.J2C@netcom.com> herbr@netcom.com (Herb Rosenberg) writes:
>Does anyone know of the listing of various HF Beacons on the various Ham
>bands? I know a few years ago, there was a network of beacons on 20
>,eters on 14.100 or 14.000 that was coordinated with 7 or 8 various
>stations around the world. Each station sent a short cw message at 100
>watts then 10 watts then 1 watt, and then the next station began its
>transmission. It was very good for gauging propagation openings on 20
>meters. I know that there are some beacons on 10 meters, but I don't
>know the frequencies, and I would be very interested in the other HF bands
>as well.

There's a 10M beacon list available via email from
ham-server@grafex.sbay.org - haven't used that in
a long time - I think you should just write:

INDEX

and wait for the list of files with instructions.

I believe the file you want is titled

10M.BEACONLST or close to that.

Jeff NH6IL

Date: 12 Sep 1994 19:19:36 -0700
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!barrnet.net!nnnp.crl.com!crl.crl.com!
not-for-mail@network.ucsd.edu
Subject: Learning CW
To: info-hams@ucsd.edu

I thought that I would add my 2 cents worth in. One year ago today I passed my no-code technician. I wanted just to use 2m and had no desire to learn code. While I was waiting my 12 weeks for my license to arrive I got a chance to see someone who knew how to send code in action. This guy was sending about 18 wpm making contacts (Seemed like 50 wpm to me at the time!). After some casual observing I realized that this guy was blind. I though how neat, so I started learning my code, well within 4 months I had managed to upgrade to 13 wpm. I am now and Advanced and love it.

Anyway some were wondering about using the computer to learn code. This is in my opinion the worst way possible! Don't get me wrong I love computers, I work with them 80 hours a week (programming, configuring etc.) and I thought that if I could mix my well rounded computer knowledge with code I could get it done faster. BUNK! Get the tapes and learn it that way! Or better yet I had more incentive at this time to learn code, I bought the most expensive type of code practice oscillator you can get - An HF rig!!! That will sure put the bug in you. (No pun intended!) . Just though I would pass my two cents along, Do it the way the OLD-TIMERS did it. Listen to it on the air, it is a whole heck of a lot different that what the computer spits out at you!

thanks for listening to my babbling...

73's from a soon to be Extra

pbp (KR4UJ)

Date: 12 Sep 1994 18:30:54 GMT
From: ncar!newsxfer.itd.umich.edu!sol.ctr.columbia.edu!news.oberlin.edu!
ocvaxa.cc.oberlin.edu!PRUTH@ames.arpa
Subject: New license elapsed time
To: info-hams@ucsd.edu

Took Tech test Sunday, July 17--arrived today, Sept. 12--eight weeks.
I had even written on my personal calendar for Sept. 12: "Tech
license due today"! And, it arrived one day after my birthday.
--Bill Ruth, Oberlin, Ohio KB8USZ

Date: Mon, 12 Sep 94 18:37:48 -0500
From: news.delphi.com!usenet@uunet.uu.net
Subject: Radio Shack mast
To: info-hams@ucsd.edu

From: Jim Clark KB0FIR <JIM3804@delphi.com>

I have used for three years, until I moved a Mosely TA-32JR on a 36 ft. push-up mast. Also used Alliance U-110 TV rotor. Bracketed the mast to the side of the house with a Radio Shack mounting bracket, and guyed the upper two sections including the top. Worked 245 countries barefoot! If you mount

the mast to the side of the house, and get up on the roof and push the antenna up, you Only took it down because I moved. Worked great! Would not recommend an antenna larger than a 2-el tribander. Quads are hard, cause you can't guy the mast at the top because of the quad. Email me if you would like more info. Make sure to ground the mast. Worked for me for 3 years in FL! 73, Jim

Date: 13 Sep 94 12:32:01 GMT
From: news-mail-gateway@ucsd.edu
Subject: Rise Set Times 9/14-16
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-64.010
STS-64 Eastern R/S Times 09/14

Below are the rise and set times for STS-64 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that all times are in UTC.

Rise= time (HH:MM:SS) the Shuttle Orbiter appears at the horizon
Az= Azimuth (true) where the Orbiter will rise.
Maximum= time, azimuth (Az), and elevation (El) of the highest part of the pass
Set= time and azimuth when the Shuttle descends below the horizon
Orb= the number of this orbit
Rise MET= The Mission Elapsed Time at the rise. Format is DD:HH:MM:SS

Atlanta GA

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise MET
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14Sep94	05:57:10	321	06:01:03	304	83	06:05:15	142	70	04:07:34:15
14Sep94	20:28:31	189	20:32:06	127	17	20:35:59	57	80	04:22:05:36
14Sep94	22:01:37	258	22:04:54	315	12	22:08:30	17	81	04:23:38:42
15Sep94	04:20:01	351	04:23:00	37	7	04:26:00	86	85	05:05:57:06
15Sep94	05:52:14	313	05:56:07	234	37	06:00:00	155	86	05:07:29:19
15Sep94	20:23:10	202	20:27:03	126	32	20:30:56	49	96	05:22:00:15
15Sep94	21:56:52	270	22:00:10	323	7	22:03:09	10	97	05:23:33:57
16Sep94	04:14:40	344	04:17:58	39	11	04:21:33	101	101	06:05:51:45
16Sep94	05:47:11	304	05:50:46	242	19	05:54:40	168	102	06:07:24:16
16Sep94	20:17:49	215	20:21:43	149	73	20:25:54	41	112	06:21:54:54

Miami FL

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	05:59:10	330	06:03:21	65	50	06:07:14	138	70	04:07:36:15	
14Sep94	20:27:13	218	20:31:06	318	70	20:34:59	33	80	04:22:04:18	
15Sep94	05:54:13	321	05:58:24	213	58	06:02:18	151	86	05:07:31:18	
15Sep94	20:21:58	230	20:25:51	301	28	20:30:03	24	96	05:21:59:03	
16Sep94	04:17:16	2	04:20:15	48	5	04:22:57	90	101	06:05:54:21	
16Sep94	05:49:10	311	05:53:04	238	25	05:56:57	165	102	06:07:26:15	
16Sep94	18:45:01	170	18:48:18	116	8	18:51:18	68	111	06:20:22:06	
16Sep94	20:17:13	245	20:20:49	311	15	20:24:24	14	112	06:21:54:18	

New York NY

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	02:52:21	344	02:55:03	26	5	02:57:44	67	68	04:04:29:26	
14Sep94	04:24:16	321	04:28:27	46	43	04:32:20	125	69	04:06:01:21	
14Sep94	05:57:58	284	06:00:58	237	7	06:03:57	190	70	04:07:35:03	
14Sep94	20:31:00	205	20:34:53	130	30	20:38:47	54	80	04:22:08:05	
14Sep94	22:04:25	266	22:08:00	330	13	22:11:35	28	81	04:23:41:30	
15Sep94	02:47:01	338	02:50:19	30	7	02:53:18	77	84	05:04:24:06	
15Sep94	04:19:32	316	04:23:25	356	84	04:27:36	136	85	05:05:56:37	
15Sep94	20:25:46	217	20:29:40	153	58	20:33:51	48	96	05:22:02:51	
15Sep94	21:59:29	274	22:02:46	326	9	22:06:21	25	97	05:23:36:34	
16Sep94	02:41:47	335	02:45:23	35	10	02:48:40	88	100	06:04:18:52	
16Sep94	04:14:18	310	04:18:11	241	45	04:22:23	147	101	06:05:51:23	
16Sep94	20:20:26	228	20:24:38	335	66	20:28:31	42	112	06:21:57:31	
16Sep94	21:54:45	285	21:57:44	331	6	22:00:43	19	113	06:23:31:50	

Washington DC

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	04:24:28	330	04:28:21	43	21	04:32:14	112	69	04:06:01:33	
14Sep94	05:57:34	295	06:00:52	239	12	06:04:27	176	70	04:07:34:39	
14Sep94	20:30:18	201	20:34:11	126	25	20:38:05	54	80	04:22:07:23	
14Sep94	22:03:25	262	22:07:00	321	12	22:10:35	24	81	04:23:40:30	
15Sep94	04:19:20	324	04:23:31	53	35	04:27:24	124	85	05:05:56:25	
15Sep94	05:52:44	288	05:55:43	242	7	05:58:43	192	86	05:07:29:49	
15Sep94	20:25:10	213	20:29:03	129	50	20:32:56	48	96	05:22:02:15	
15Sep94	21:58:52	274	22:02:10	328	8	22:05:27	20	97	05:23:35:57	
16Sep94	02:42:10	346	02:44:52	27	5	02:47:51	74	100	06:04:19:15	
16Sep94	04:14:05	319	04:18:16	48	72	04:22:10	135	101	06:05:51:10	
16Sep94	20:19:44	224	20:23:55	356	70	20:27:48	42	112	06:21:56:49	
16Sep94	21:54:20	288	21:57:01	330	6	22:00:01	16	113	06:23:31:25	

Compiled by Will Marchant, KC6ROL
Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
Send comments to kc6rol@amsat.org
/EX

SB SAREX @ AMSAT \$STS-64.011
STS-64 Central R/S Times 09/14

Below are the rise and set times for STS-64 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that all times are in UTC.

Rise= time (HH:MM:SS) the Shuttle Orbiter appears at the horizon
Az= Azimuth (true) where the Orbiter will rise.
Maximum= time, azimuth (Az), and elevation (El) of the highest part of the pass
Set= time and azimuth when the Shuttle descends below the horizon
Orb= the number of this orbit
Rise MET= The Mission Elapsed Time at the rise. Format is DD:HH:MM:SS

Chicago IL

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	04:22:28	330	04:26:04	31	13	04:29:39	94	69	04:05:59:33	
14Sep94	05:54:59	307	05:59:10	224	34	06:03:03	152	70	04:07:32:04	
14Sep94	22:02:01	227	22:05:54	291	76	22:10:06	45	81	04:23:39:06	
14Sep94	23:36:01	283	23:39:19	336	8	23:42:18	24	82	05:01:13:06	
15Sep94	04:17:26	327	04:21:20	38	18	04:24:55	104	85	05:05:54:31	

15Sep94	05:50:15	301	05:54:08	229	19	05:57:43	164	86	05:07:27:20
15Sep94	20:25:22	173	20:28:22	124	8	20:31:39	72	96	05:22:02:27
15Sep94	21:56:59	238	22:00:52	317	40	22:05:03	40	97	05:23:34:04
15Sep94	23:31:35	294	23:34:17	337	6	23:37:16	23	98	06:01:08:40
16Sep94	04:12:06	322	04:16:17	44	28	04:20:11	115	101	06:05:49:11
16Sep94	05:45:13	294	05:48:48	235	12	05:52:05	178	102	06:07:22:18
16Sep94	20:19:26	188	20:23:02	126	13	20:26:37	64	112	06:21:56:31
16Sep94	21:51:57	249	21:55:50	329	24	21:59:43	36	113	06:23:29:02

Denver CO

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	05:53:23	333	05:56:58	36	14	06:00:34	100	70	04:07:30:28	
14Sep94	07:25:54	304	07:29:47	236	22	07:33:40	162	71	04:09:02:59	
14Sep94	22:00:07	181	22:03:25	124	12	22:07:00	64	81	04:23:37:12	
14Sep94	23:32:20	247	23:35:55	314	23	23:39:48	32	82	05:01:09:25	
15Sep94	05:48:15	328	05:52:08	41	22	05:56:01	112	86	05:07:25:20	
15Sep94	07:21:21	295	07:24:39	239	13	07:28:14	175	87	05:08:58:26	
15Sep94	21:54:23	196	21:58:16	124	20	22:01:52	58	97	05:23:31:28	
15Sep94	23:27:30	258	23:31:05	325	15	23:34:40	28	98	06:01:04:35	
16Sep94	05:43:07	324	05:47:00	42	36	05:50:53	123	102	06:07:20:12	
16Sep94	07:16:31	286	07:19:30	238	7	07:22:30	190	103	06:08:53:36	
16Sep94	21:48:57	208	21:52:50	133	36	21:56:43	51	113	06:23:26:02	
16Sep94	23:22:21	268	23:25:57	328	10	23:29:21	24	114	07:00:59:26	

Houston TX

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	05:57:04	352	06:00:21	47	9	06:03:39	100	70	04:07:34:09	
14Sep94	07:29:17	306	07:33:10	236	18	07:36:45	171	71	04:09:06:22	
14Sep94	21:58:49	234	22:02:43	317	28	22:06:36	26	81	04:23:35:54	
15Sep94	05:51:43	343	05:55:19	45	15	05:58:54	112	86	05:07:28:48	
15Sep94	07:24:50	294	07:28:07	238	9	07:31:25	185	87	05:09:01:55	
15Sep94	20:21:34	175	20:24:51	121	10	20:28:09	66	96	05:21:58:39	
15Sep94	21:53:47	246	21:57:40	317	15	22:01:15	18	97	05:23:30:52	
16Sep94	05:46:23	334	05:50:16	49	28	05:54:09	126	102	06:07:23:28	
16Sep94	20:15:56	189	20:19:31	124	18	20:23:24	54	112	06:21:53:01	
16Sep94	21:49:02	260	21:52:19	314	9	21:55:37	9	113	06:23:26:07	

Huntsville AL

Satellite STS-64

Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	05:56:34	322	06:00:45	84	69	06:04:39	138	70	04:07:33:39	
14Sep94	20:28:48	179	20:32:06	124	11	20:35:41	64	80	04:22:05:53	
14Sep94	22:01:01	247	22:04:54	319	18	22:08:30	23	81	04:23:38:06	
15Sep94	04:19:43	352	04:22:25	34	6	04:25:24	83	85	05:05:56:48	
15Sep94	05:51:38	315	05:55:31	246	47	05:59:42	150	86	05:07:28:43	
15Sep94	20:23:10	194	20:27:03	122	20	20:30:38	56	96	05:22:00:15	
15Sep94	21:56:16	260	21:59:52	320	11	22:03:27	18	97	05:23:33:21	
16Sep94	04:14:05	344	04:17:40	43	10	04:20:57	97	101	06:05:51:10	
16Sep94	05:46:35	307	05:50:28	234	23	05:54:22	163	102	06:07:23:40	
16Sep94	20:17:49	206	20:21:43	125	39	20:25:36	47	112	06:21:54:54	
16Sep94	21:51:50	275	21:54:49	324	7	21:57:48	11	113	06:23:28:55	

Compiled by Will Marchant, KC6ROL

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to kc6rol@amsat.org

/EX

SB SAREX @ AMSAT \$STS-64.012

STS-64 Western R/S Times 09/14

Below are the rise and set times for STS-64 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that all times are in UTC.

Rise= time (HH:MM:SS) the Shuttle Orbiter appears at the horizon

Az= Azimuth (true) where the Orbiter will rise.

Maximum= time, azimuth (Az), and elevation (El) of the highest part of the pass

Set= time and azimuth when the Shuttle descends below the horizon

Orb= the number of this orbit

Rise MET= The Mission Elapsed Time at the rise. Format is DD:HH:MM:SS

Albuquerque NM

Satellite STS-64

Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	05:54:29	351	05:57:28	37	5	06:00:10	79	70	04:07:31:34	
14Sep94	07:26:41	317	07:30:35	233	61	07:34:28	147	71	04:09:03:46	
14Sep94	21:58:31	188	22:02:07	126	15	22:06:00	58	81	04:23:35:36	
14Sep94	23:31:20	254	23:34:55	316	14	23:38:30	20	82	05:01:08:25	
15Sep94	05:49:26	346	05:52:43	42	9	05:56:01	94	86	05:07:26:31	
15Sep94	07:21:39	309	07:25:32	236	28	07:29:25	160	87	05:08:58:44	
15Sep94	21:53:11	201	21:57:04	124	29	22:00:57	50	97	05:23:30:16	

15Sep94	23:26:53	269	23:29:53	318	8	23:33:10	13	98	06:01:03:58
16Sep94	05:44:05	340	05:47:41	46	14	05:51:16	106	102	06:07:21:10
16Sep94	07:16:36	301	07:20:11	241	15	07:23:47	174	103	06:08:53:41
16Sep94	21:47:50	214	21:51:43	131	63	21:55:37	43	113	06:23:24:55
16Sep94	23:22:08	282	23:24:50	323	5	23:27:28	5	114	07:00:59:13

Honolulu HI

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	00:59:13	183	01:02:48	120	14	01:06:23	57	67	04:02:36:18	
14Sep94	02:32:37	261	02:35:37	310	7	02:38:36	358	68	04:04:09:42	
14Sep94	10:28:49	4	10:31:48	50	6	10:34:47	96	73	04:12:05:54	
14Sep94	12:01:01	306	12:04:37	240	18	12:08:12	173	74	04:13:38:06	
15Sep94	00:53:52	198	00:57:45	125	30	01:01:39	45	83	05:02:30:57	
15Sep94	10:23:28	353	10:26:45	48	12	10:30:21	112	89	05:12:00:33	
15Sep94	11:56:16	294	11:59:34	240	9	12:02:33	190	90	05:13:33:21	
16Sep94	00:48:49	211	00:52:43	99	80	00:56:36	34	99	06:02:25:54	
16Sep94	10:18:01	343	10:21:37	48	22	10:25:30	126	105	06:11:55:06	

Los Angeles CA

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	01:08:29	281	01:11:10	324	5	01:13:52	5	67	04:02:45:34	
14Sep94	07:25:23	338	07:28:59	39	16	07:32:52	111	71	04:09:02:28	
14Sep94	08:58:12	298	09:01:47	239	12	09:05:22	178	72	04:10:35:17	
14Sep94	23:28:56	224	23:33:08	322	61	23:37:01	36	82	05:01:06:01	
15Sep94	07:20:15	331	07:24:08	44	28	07:28:02	123	87	05:08:57:20	
15Sep94	08:53:57	284	08:56:39	241	6	08:59:38	194	88	05:10:31:02	
15Sep94	21:52:47	163	21:55:29	120	6	21:58:28	74	97	05:23:29:52	
15Sep94	23:24:06	236	23:27:59	313	29	23:31:53	29	98	06:01:01:11	
16Sep94	07:15:07	324	07:19:00	40	58	07:23:11	136	103	06:08:52:12	
16Sep94	21:46:45	179	21:50:03	124	11	21:53:38	63	113	06:23:23:50	
16Sep94	23:18:58	248	23:22:51	318	17	23:26:34	23	114	07:00:56:03	

Seattle WA

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	01:08:29	228	01:12:40	131	77	01:16:51	54	67	04:02:45:34	
14Sep94	02:42:11	276	02:45:47	340	15	02:49:22	44	68	04:04:19:16	

14Sep94	04:16:12	307	04:19:29	1	9	04:22:46	55	69	04:05:53:17
14Sep94	05:49:18	315	05:53:11	24	16	05:56:47	87	70	04:07:26:23
14Sep94	07:22:07	305	07:26:18	204	61	07:30:11	135	71	04:08:59:12
14Sep94	23:32:08	179	23:35:08	130	9	23:38:25	75	82	05:01:09:13
15Sep94	01:03:45	238	01:07:38	310	61	01:11:49	51	83	05:02:40:50
15Sep94	02:37:27	283	02:41:02	346	12	02:44:38	45	84	05:04:14:32
15Sep94	04:11:27	311	04:14:45	6	9	04:18:02	59	85	05:05:48:32
15Sep94	05:44:16	314	05:48:09	21	20	05:52:02	96	86	05:07:21:21
15Sep94	07:17:04	302	07:21:16	219	35	07:25:09	146	87	05:08:54:09
15Sep94	23:26:30	192	23:30:05	128	14	23:33:41	67	98	06:01:03:35
16Sep94	00:58:43	248	01:02:36	324	38	01:06:47	49	99	06:02:35:48
16Sep94	02:32:25	289	02:36:00	348	11	02:39:36	47	100	06:04:09:30
16Sep94	04:06:25	313	04:09:43	8	10	04:13:00	64	101	06:05:43:30
16Sep94	05:39:14	313	05:43:07	24	27	05:47:00	104	102	06:07:16:19
16Sep94	07:12:02	298	07:15:56	229	22	07:19:49	156	103	06:08:49:07
16Sep94	23:20:46	204	23:24:39	134	22	23:28:11	64	114	07:00:57:51

Compiled by Will Marchant, KC6ROL

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to kc6rol@amsat.org

/EX

SB SAREX @ AMSAT \$STS-64.013

STS-64 World R/S Times 09/14

Below are the rise and set times for STS-64 for selected worldwide cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that all times are in UTC.

Rise= time (HH:MM:SS) the Shuttle Orbiter appears at the horizon

Az= Azimuth (true) where the Orbiter will rise.

Maximum= time, azimuth (Az), and elevation (El) of the highest part of the pass

Set= time and azimuth when the Shuttle descends below the horizon

Orb= the number of this orbit

Rise MET= The Mission Elapsed Time at the rise. Format is DD:HH:MM:SS

London UK

Satellite STS-64

Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise MET
14Sep94	00:00:00	186	00:00:00	186	7	00:01:48	166	66	04:01:37:05
14Sep94	16:05:08	194	16:08:44	132	13	16:12:19	73	77	04:17:42:13
14Sep94	17:37:03	243	17:41:14	334	72	17:45:25	60	78	04:19:14:08
14Sep94	19:10:27	280	19:14:21	350	22	19:18:14	64	79	04:20:47:32
14Sep94	20:43:52	299	20:47:45	14	24	20:51:38	86	80	04:22:20:57

14Sep94	22:16:40	299	22:20:51	184	73	22:24:45	125	81	04:23:53:45
14Sep94	23:50:05	280	23:53:04	232	8	23:56:21	179	82	05:01:27:10
15Sep94	15:59:42	204	16:03:35	135	18	16:07:11	70	93	05:17:36:47
15Sep94	17:32:13	251	17:36:06	324	49	17:40:17	59	94	05:19:09:18
15Sep94	19:05:37	285	19:09:30	359	20	19:13:24	67	95	05:20:42:42
15Sep94	20:38:44	300	20:42:37	10	28	20:46:48	93	96	05:22:15:49
15Sep94	22:11:32	298	22:15:43	210	47	22:19:36	134	97	05:23:48:37
15Sep94	23:45:14	274	23:47:56	233	5	23:50:37	192	98	06:01:22:19
16Sep94	15:54:22	214	15:58:15	140	27	16:02:09	66	109	06:17:31:27
16Sep94	17:27:11	259	17:31:04	342	37	17:34:57	59	110	06:19:04:16
16Sep94	19:00:35	290	19:04:10	355	20	19:08:04	69	111	06:20:37:40
16Sep94	20:33:41	301	20:37:35	22	34	20:41:28	99	112	06:22:10:46
16Sep94	22:06:30	295	22:10:23	217	30	22:14:13	143	113	06:23:43:35

Paris France

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	00:00:00	200	00:00:00	200	12	00:02:41	165	66	04:01:37:05	
14Sep94	16:04:32	207	16:08:26	137	23	16:12:19	64	77	04:17:41:37	
14Sep94	17:37:21	256	17:41:14	332	30	17:45:07	50	78	04:19:14:26	
14Sep94	19:11:03	292	19:14:39	353	12	19:18:14	54	79	04:20:48:08	
14Sep94	20:44:28	309	20:48:21	17	15	20:51:56	80	80	04:22:21:33	
14Sep94	22:17:16	306	22:21:27	30	71	22:25:39	122	81	04:23:54:21	
14Sep94	23:50:41	285	23:53:58	231	9	23:57:15	178	82	05:01:27:46	
15Sep94	15:59:30	216	16:03:24	136	36	16:07:17	60	93	05:17:36:35	
15Sep94	17:32:19	264	17:36:12	334	23	17:40:05	50	94	05:19:09:24	
15Sep94	19:06:19	298	19:09:54	2	12	19:13:12	57	95	05:20:43:24	
15Sep94	20:39:26	310	20:43:19	18	18	20:47:12	87	96	05:22:16:31	
15Sep94	22:12:14	304	22:16:25	208	69	22:20:19	132	97	05:23:49:19	
15Sep94	23:45:56	277	23:48:38	236	5	23:51:19	193	98	06:01:23:01	
16Sep94	15:54:10	226	15:58:04	152	61	16:02:15	57	109	06:17:31:15	
16Sep94	17:27:17	271	17:31:10	341	18	17:35:03	50	110	06:19:04:22	
16Sep94	19:01:17	303	19:04:34	359	12	19:08:10	61	111	06:20:38:22	
16Sep94	20:34:24	311	20:38:17	27	22	20:42:10	95	112	06:22:11:29	
16Sep94	22:07:12	300	22:11:05	222	40	22:15:10	141	113	06:23:44:17	

Sydney Australia

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	02:12:35	218	02:16:46	133	73	02:20:39	41	67	04:03:49:40	
14Sep94	16:44:31	356	16:47:49	54	14	16:51:42	121	77	04:18:21:36	
14Sep94	18:17:02	288	18:20:37	226	14	18:24:30	159	78	04:19:54:07	

15Sep94	00:35:44	188	00:38:43	142	6	00:41:43	96	82	05:02:12:49
15Sep94	02:07:38	225	02:11:50	308	47	02:15:43	28	83	05:03:44:43
15Sep94	16:38:53	342	16:42:46	53	26	16:46:39	128	93	05:18:15:58
15Sep94	18:12:35	273	18:15:52	217	9	18:19:10	166	94	05:19:49:40
16Sep94	00:30:23	194	00:33:41	141	10	00:37:16	82	98	06:02:07:28
16Sep94	02:02:54	233	02:06:47	310	22	02:10:22	15	99	06:03:39:59
16Sep94	16:33:32	329	16:37:25	37	54	16:41:37	137	109	06:18:10:37
16Sep94	18:07:50	261	18:10:32	220	5	18:13:31	174	110	06:19:44:55

Tokyo Japan

Satellite STS-64
Element Set 14

Date	Rise	Az	Maximum	Az	El	Set	Az	Orb	Rise	MET
14Sep94	05:32:33	172	05:35:50	118	8	05:38:49	70	70	04:07:09:38	
14Sep94	07:04:27	242	07:08:21	319	24	07:12:14	29	71	04:08:41:32	
14Sep94	13:22:40	349	13:25:39	36	6	13:28:39	83	75	04:14:59:45	
14Sep94	14:54:52	315	14:58:46	233	52	15:02:39	149	76	04:16:31:57	
15Sep94	05:27:00	187	05:30:36	124	15	05:34:11	60	86	05:07:04:05	
15Sep94	06:59:49	254	07:03:24	320	15	07:06:59	22	87	05:08:36:54	
15Sep94	13:17:19	342	13:20:54	43	10	13:24:12	96	91	05:14:54:24	
15Sep94	14:49:50	307	14:53:43	233	25	14:57:36	161	92	05:16:26:55	
16Sep94	05:21:40	200	05:25:15	133	27	05:29:26	51	102	06:06:58:45	
16Sep94	06:55:04	267	06:58:21	322	9	07:01:39	16	103	06:08:32:09	
16Sep94	13:11:58	337	13:15:34	39	16	13:19:27	109	107	06:14:49:03	
16Sep94	14:44:47	299	14:48:22	237	14	14:51:58	175	108	06:16:21:52	

Compiled by Will Marchant, KC6ROL

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to kc6rol@amsat.org

/EX

Date: 13 Sep 94 12:55:26 GMT

From: news-mail-gateway@ucsd.edu

Subject: SAREX Elements 9/13 at 12:85 UTC

To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-64.014

SAREX Orbital Elements 9/13 at 12:45 UTC

Greenbelt, MD September 13, 1994 at 12:45 UTC

Gil Carman, WA5NOM reports that Element Set GSFC-14, provided by Ron Parise, WA4SIR, is within 1 second of a current (orbit 59) orbiter state vector.

This element set will be the official SAREX set for today.

STS-64

```
1 23251U 94059A   94256.35518513 0.00001905 10675-4 74542-5 0   140
2 23251  57.0075 208.5262 0009814 264.2494 95.7470 16.05008849   561
```

Satellite: STS-64

Catalog number: 23251

Epoch time: 94256.35518513 (13 SEP 94 08:31:27.99 UTC)

Element set: GSFC-014

Inclination: 57.0075 deg

RA of node: 208.5262 deg Space Shuttle Flight STS-64

Eccentricity: 0.0009814 Keplerian Elements

Arg of perigee: 264.2494 deg

Mean anomaly: 95.7470 deg

Mean motion: 16.05008849 rev/day Semi-major Axis: 6638.7031 Km

Decay rate: 0.19E-04 rev/day*2 Apogee Alt: 266.83 Km

Epoch rev: 56 Perigee Alt: 253.80 Km

NOTE - This element set is based on NORAD element set # 014.

The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
/EX

Date: 12 Sep 1994 22:33:45 GMT

From: svc.portal.com!shell.portal.com!twise@uunet.uu.net

Subject: telnet to fcc?

To: info-hams@ucsd.edu

I thought I remembered hearing something about the fcc having a telnet site...I can telnet to FCC.GOV, but can't get past the password.

At some point, it'd be nifty if they had an on-line, up to the minute way for us to check license statuses, as they entered them into their computers. But then this is .gov not .com. Oh well.

Travis KB8FOU

--

Travis A. Wise

Assistant Manager, Photo Drive Up
Freshman, San Jose State University

Voice Mail/Pager: (408) 383-8570

Date: Tue, 13 Sep 1994 01:06:23 GMT
From: psinntp!isc-newsserver!ultb!jdc3538@uunet.uu.net
Subject: Using 9913 outdoors (was Re: Coax Fittings)
To: info-hams@ucsd.edu

In article <9409120400061382@pcappbbs.com> dale.piedfort@pcappbbs.com (Dale Piedfort) writes:

>9913 is great coax if you are going to use it in straight runs, it will
>not take undo flexing such as being used on a rotor though. And one of
>the drawbacks of 9913 it is subject to contamination because of the air
>dielectric. Better coax for your use would be Times Micro Wave LMR400

How about filling the last foot of the 9913 with polystyrene cement
or the silicon RTV goop to keep water out? Also, for flexibility,
can one splice a 5 or 10 foot length of RG-8 on the end of a 9913 run?

73...Jim N2VNO

>dale.piedfort@pcappbbs.com

End of Info-Hams Digest V94 #1016
